MEADE®

TELESCOPES

Explore the Universe with the World's Most Respected and Best Selling Telescope Brand

BULLETIN 100

DS SERIES

Meade® DS-2130ATS

130mm (5.1") Altazimuth Reflector

LARGE APERTURE *GO TO* TELESCOPE

Reflectors have long been a favorite with amateur astronomers. The large 130mm diameter mirror of the Meade DS-2130ATS provides 469% brighter images and a tremendous increase in fine detail, compared to common 60mm telescopes.

The standard equipment #494 AutoStar® Computer Control System permits automatic object location and tracking of more than 1400 objects in the AutoStar database at the touch of a button.

See fainter and more distant objects in far greater detail. Several thousand star clusters, galaxies and nebulae are within range of this telescope. This model is highly recommended for astronomical applications; however, due to its image orientation it is not recommended for land viewing.

Includes two premium 4-element Super Plössl eyepieces.

SPECIFICATIONS

Meade Model DS-2130ATS (P/N: 20132) — Supplied complete with aluminized and multi-coated primary mirror (D = 130mm, F = 1000mm, f/7.7) • Motorized tracking mount (requires eight user-supplied AA-size batteries) • #494 AutoStar Computer Control System • Meade PC-compatible astronomical software • Full-length adjustable aluminum tripod with accessory shelf • 6 x 30mm viewfinder; two premium eyepieces (1.25"): SP 9.7mm, and SP 26mm • Operating instructions • Giftbox.

Meade 114EQ-AST and Meade 114EQ-A

114mm (4.5") Equatorial Reflectors

LARGE APERTURE MANUAL TELESCOPES

Because the earth rotates once on its axis every 24 hours, celestial objects move rapidly through the telescopic field, particularly at higher powers. The equatorial mount of both the Meade 114EQ-AST and 114EQ-A greatly facilitates object tracking, simply by manually turning one or both of the control cables.

The large 114mm-diameter mirror of these models gathers 361% more light than 60mm telescopes. Fainter, more distant objects can be seen in far greater detail.

The beginning amateur who intends to use a manual telescope on a regular basis will find the equatorial mount to be a valuable investment.

SPECIFICATIONS

Meade Model 114EQ-A (P/N: 04055) — Deluxe model supplied complete with overcoated primary mirror and aluminum optical tube assembly, (D=114mm, F=910mm, f/8) • Rack-and-pinion focuser (1.25") • Equatorial mount with unique covered worm-gear slow-motion control • Setting circles • Deluxe latitude control with scale • Two eyepieces (1.25"): MA9mm (101X) and MA25mm (36X) • 5 x 24mm viewfinder • Adjustable aluminum tripod with shelf • Planetarium software for the PC • Operating instructions • Giftbox.

SPECIFICATIONS

Meade Model 114EQ-AST (P/N: 04056) — Basic model includes the same diameter mirror as above, but includes a special relay lens which shortens the tube length and yields a 1000mm focal length (f/8.8). Includes a somewhat smaller mount and tripod than the model above. The exact same accessories are present in both models.

DS SERIES

Meade® DS-2080AT

80mm (3.1") Altazimuth Refractor

HIGH-PERFORMANCE *GO TO* TELESCOPE

Feel like a professional astronomer your first night under the stars. Revolutionary AutoStar® computer technology allows you to navigate the heavens effortlessly at the touch of few buttons. Just enter the object you desire in the AutoStar display, press GO TO, and AutoStar places the object in the telescopic field of view, and tracks it automatically! Provides pristine, ultra high-contrast images of Saturn's awesome rings, the cloud belts of Jupiter, and the essential structure of deep space objects. AutoStar has over 1400 fascinating celestial objects in its database.

Features built-in internal tracking motors, gears and cords. The single-tine fork mount design and quick release tripod with accessory tray offers a sleek contemporary appearance.

Includes two premium 4-element Super Plössl eyepieces.

SPECIFICATIONS

Meade Model DS-2080AT (P/N: 20084) — Supplied complete with coated objective lens (D = 80mm, F = 800mm, f/10) • Motorized altazimuth mount (requires eight user-supplied AA-size batteries) • #494 AutoStar Computer Control System with 1400-object database • Meade PC-compatible astronomical software • Adjustable aluminum tripod with accessory shelf • 5 x 24mm viewfinder • Diagonal mirror (1.25") • Two premium eyepieces (1.25"): SP 9.7mm and SP 26mm • Operating instructions • Giftbox.

Meade 80EQ-A

80mm (3.1") Equatorial Refractor

HIGH-PERFORMANCE MANUAL TELESCOPE

This large aperture 80mm diameter telescope with deluxe equatorial mount provides contrast-rich, high-resolution images of Saturn, Jupiter, the Moon and many deep-space objects, as well as landmarks and nature.

The Meade 80EQ-A permits more advanced study than smaller telescopes and enables observation of the Cassini Division in Saturn's rings. Jupiter's surface now takes on added detail as the cloud belt begins to show their essential structure, and transits of the planet's satellites across the planetary disk may now be seen. In deep-space, open star clusters, such as the Pleiades (M45) in Taurus, display hundreds of stars in one telescopic field of view.

Includes two 3-element 1.25" eyepieces, deluxe equatorial mount with covered worm-gears that facilitate slow-motion tracking control of fast moving sky objects, heavy-duty aluminum tripod, and much more.

SPECIFICATIONS

Meade Model 80EQ-A (P/N: 04051) — Supplied complete with coated achromatic objective lens made of grade-A crown and flint glass • Diagonal mirror • Deluxe equatorial mount with slow-motion controls • Deluxe latitude adjuster • Adjustable aluminum tripod • Two 3-element eyepieces (MA9mm, MA25mm) • 6 x 30 viewfinder • Software for the PC • Operating instructions • Giftbox.

NG SERIES

Meade® NG-70 / NGC-70

Advanced 70mm (2.8") Refractor

NEW GENERATION TELESCOPES: ADVANCED MANUAL MOUNT WITH COMPUTER CAPABILITY

Meade engineers have thoroughly updated the traditional entry-level telescope to a new standard for the 21st Century. These New Generation telescopes incorporate advanced industrial design yielding a striking, ultra modern appearance. Large, precision bearing surfaces provide smooth manual motions in both altitude and azimuth.

An advanced computerized model (NGC) offers all the feature enhancements of the previously described NG model, plus includes the significant performance advantage of a built-in computer finding system with manual slow-motions controls.

Both models include two premium 4-element Super Plössl eyepieces.

SPECIFICATIONS
Meade Model NGC-70 Refracting Telescope (P/N: 20211) — Supplied complete with multi-coated, achromatic objective lens (D=70mm, F=700mm, f/11.7) • Built-in, self-guided GO TO computer control system offering 1400-object database (requires one 9 Volt user-supplied battery) • Altazimuth mount with slow-motion controls • PC-compatible astronomical software • Adjustable aluminum tripod with accessory shelf • 5 x 24mm viewfinder • Diagonal mirror • Two eyepieces (1.25"): SP 26mm and SP 9.7mm • Operating instructions • Giftbox.

SPECIFICATIONS
Meade Model NG-70 Refracting Telescope (P/N: 20210) — Identical in all specifications to Model NGC-70 above, but without computer control system.

BONUS
StarNavigator™
Software

Meade 70AZ-A

70mm (2.8") Altazimuth Refractor

A QUALITY TELESCOPE AT A GREAT PRICE

The Meade 70AZ-A is a high performance 70mm refractor ideally suited to the beginning astronomer or terrestrial observer: the rings of Saturn, four satellites of Jupiter, and hundreds of Moon craters are only the beginning of what can be observed through this telescope.

The Meade 70AZ-A includes an altazimuth mount with a slow motion control in vertical. The coated, achromatic (color-corrected) objective lens yields sharp, clear images for viewing both astronomical and terrestrial subjects. The Meade 70AZ-A includes two 3-element 1.25" barrel-diameter eyepieces (MA9mm, MA25mm), adjustable aluminum tripod, and planetarium software for the PC with 10,000-object database.

SPECIFICATIONS
Meade Model 70AZ-A (P/N: 04041) — Supplied complete with coated objective lens assembly • (D=70mm, F= 700mm, f/10) • Rack-and-pinion focuser • Altazimuth yoke type mount with vertical slow-motion control • Two eyepieces (1.25"): MA9mm (78X) and MA25mm (28X) • 5 x 24mm viewfinder • Diagonal mirror • Adjustable aluminum tripod with shelf • Planetarium software for the PC • Operating instructions • Giftbox.

AZ SERIES

Meade® 60AZ-T, Meade® 70AZ-T

Short Tube 60mm (2.4") and 70mm (2.8") Table Top Altazimuth Refractors

Whether used as casual telescopes for astronomy or as high-resolution spotting scopes for land viewing, these short tube telescopes deliver powerful performance in a small package.

These instruments provide bright, richest-field performance for observing wide-field astronomical objects like galaxies and nebula from dark skies, or use the provided Barlow lens for viewing close-up detail of the Moon, planets, or nature from your own backyard. Compact and portable—these scopes travel easily and store in a small space.

Both models includes a quality 2-element, coated achromatic objective lens and two 3-element eyepieces.

SPECIFICATIONS
Meade 70AZ-T (P/N: 04058) — Supplied complete with coated achromatic lens (D=70mm, F=350mm, f/5) • Table top mount with dual slow motion controls • Two 1.25" eyepieces: (MA9mm, MA17.5mm) • 2x Barlow lens • 5 x 24 viewfinder • Soft carry case • Instructions.

SPECIFICATIONS
Meade 60AZ-T (P/N: 04062) — Supplied complete with achromatic lens (D=60mm, F=350, f/5.8) • Table top tripod with pan-handled control • Two 1.25" eyepieces: (K9mm, K17.5mm) • 2x Barlow lens • Soft carry case • Instructions.

#882 Field Tripod
Standard Equipment

Meade ETX-70AT™

Compact GO TO Refractor

INCLUDES AUTOSTAR® COMPUTER AND FIELD TRIPOD

Locate and explore planets, asteroids, comets, nebulae, star clusters, galaxies, and hundreds of other deep-space objects, all at the push of a few buttons. For the novice astronomer or casual observer, the ETX-70AT opens up the skies to reveal an amazing level of detail.

- Use the standard-equipment #494 AutoStar controller to automatically locate over 1400 celestial objects. Enter the object you wish to observe on to the AutoStar display, press GO TO, and the telescope moves automatically to place the object in the field of view and then tracks it.
- Compact, multi-coated 70mm refractive optical system of Grade-A crown and flint glass with 350mm focal length yields razor-sharp images.
- Supplied with 3-element MA25mm and MA9mm eyepieces.
- Includes flip-mirror system, built-in tracking motors, and electronic control panel.

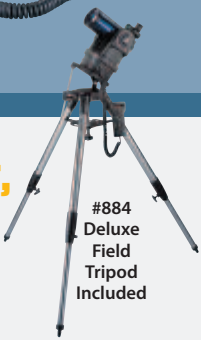
SPECIFICATIONS

ETX-70AT Astro Telescope (P/N: 0705-04-10) — Includes a precision ground refractive lens with optical coatings (D = 70mm, F = 350mm, f/5) • Fork mount with built-in tracking motors • 9-speed #494 AutoStar computer controller with 1400-object database • Internal battery compartment accepting six (user-supplied) AA-size batteries • MA9mm (39X) and MA25mm (14X) eyepieces • #882 Standard Field Tripod • Operating instructions.

ETX® SERIES

Meade® ETX-90AT, ETX-105AT, ETX-125AT

Advanced GO TO Telescopes



INCLUDES ADVANCED #497 AUTOSTAR® COMPUTER CONTROLLER AND #884 DELUXE FIELD TRIPOD

Revolutionary Meade ETX-90AT, ETX-105AT and ETX-125AT telescopes go with you anywhere at a moment's notice, and present the finest optical images, bar none, ever made available in ultraportable telescopes. Use the standard-equipment #497 AutoStar Computer Controller for automatic location and tracking of over 30,000 celestial objects at the push of a button.

ETX optics are so high in contrast, image brightness, and resolution that they consistently outperform many instruments of larger aperture. (See ETX brochure for more information.)

SPECIFICATIONS

ETX-90AT, ETX-105AT, ETX-125AT Astro Telescopes — Maksutov-Cassegrain optical tube assembly (D = 90mm, F = 1250mm, f/13.8) or (D = 105mm, F = 1470mm, f/14) or (D = 127mm, F = 1900mm, f/15) with EMC super multi-coatings • Internal flip-mirror system for straight-through or 90° observing position • Fork mount with electric slow-motion controls, setting circles and locks on both axes; electronic control panel • 9-speed dual-axis motor drive system with #497 AutoStar Computer Controller • Internal compartment for eight (user-supplied) AA-size batteries • 8 x 21mm erect-image viewfinder (ETX-90AT) • 8 x 25mm right-angle viewfinder (ETX-105AT and ETX-125AT) • Series 4000™ Super Plössl 26mm eyepiece (1.25") • #884 Deluxe Field Tripod • Operating instructions.

ETX® PREMIER

Meade® ETX-90PE, ETX-105PE, ETX-125PE Astro Telescopes

Premier Edition Telescopes with LNT™ and SmartFinder™ Advanced Technology

JUST BECAUSE A STAR MAY BE MILLIONS OF YEARS OLD DOESN'T MEAN IT SHOULD TAKE YOU THAT LONG TO FIND IT

Until now, the stargazer's two biggest challenges to enjoying the night sky have been aligning their telescope and finding objects. Meade's new ETX® Premier Edition eliminates these two challenges and makes astronomy as easy as pushing a button—right out of the box. Want to see a hard-to-find deep space galaxy? Simply push a button. The same goes for planets, stars, nebulae and more. Just pick an object you want to observe, press a button, and then AutoStar® will automatically point your telescope. All you need is a clear night, a dark sky and a little curiosity. Whether you already know the sky by heart, or are just beginning your journey of discovery, your Meade ETX Premier Edition will take you where you want to go. Astronomy has never been so fun and rewarding.

Its diffraction-limited optics are so crisp in contrast, brightness and image resolution that they consistently out-perform telescopes of larger aperture. All ETX telescopes feature BK-7 glass and oversized Pyrex® primary mirrors. The Meade #884 Field Tripod is included with each ETX-Premier telescope.

All ETX Premier telescopes feature: LNT LEVEL NORTH™ TECHNOLOGY

ASTRONOMY

Adventures in Astronomy

From the comfort of your own backyard, you can explore hundreds of galaxies, gas clouds (nebulae), and star clusters, as well the Moon, planets, and comets with a Meade telescope. The powerful light-gathering capability of a Meade telescope can transform simple points of light into objects of incredible detail. You will be enriched with the experience of seeing first-hand some of nature's most awesome spectacles.

What You Can See

With any of the Meade telescopes presented in this brochure, you can observe the following celestial objects, and a great many more, sharply and clearly: the magnificent ring system of Saturn; the distinctive cloud belt structure of Jupiter and four of its largest moons; hundreds of craters and mountain ranges on Earth's Moon and deep-space objects including the Andromeda Galaxy, the Hercules globular star cluster, and the diffuse Orion Nebula.

Meade Models 70AZ-A, NG-70, NGC-70, ETX-70AT, 80EQ-A, NG-70, NGC-70, DS-2080AT and ETX® Maksutov-Cassegrain models ETX-90™, 105 and 125 can also be used for high-resolution terrestrial observation —from reading a license plate a half-mile away to studying the delicate detail of a bird's feather. The additional light-gathering capability of the larger aperture Meade 114EQ-AST, 114EQ-A, DS-2130ATS, ETX-90, ETX-105 and ETX-125 are especially advantageous for deep-space phenomena. Several thousand star clusters, galaxies and nebulae are within range of these instruments.

What About Power?

To calculate power, divide the focal length of the telescope (e.g., 700mm for Model NG-70) by the focal length of the eyepiece (e.g., 25mm).

Lower power eyepieces (e.g., 25mm) offer wide fields of view for observing deep-space and terrestrial objects. Higher power eyepieces (e.g., 9mm) offer greater magnification and are useful for observing surface detail on the Moon and planets.

The Importance of Computerized Tracking and Object-Location

Observing an astronomical object involves following a constantly moving target. Every object in the sky moves in the same manner as our Sun, rising in the East and setting in the West. This apparent celestial movement is caused by the rotation of the Earth.

Computerized Tracking: To the unaided eye an object like the Moon appears to move slowly across the sky, but will, in fact, move surprisingly quickly through the field of view of a telescope. The AutoStar® Computer Control System directs the telescope to automatically follow fast-moving celestial objects.

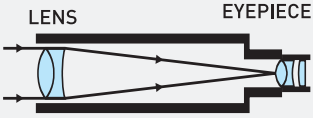
Automatic object-location: A novice astronomer often spends a disproportionate amount of time learning the sky and searching for subjects to view. AutoStar technology obliterates this learning curve. Meade's revolutionary AutoStar Computer Control System facilitates automatic object-location and tracking of over 1400 objects.

TYPES

Types of Telescopes

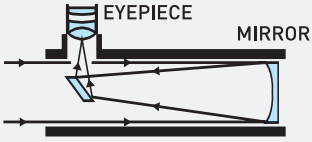
All telescopes fall into one of three optical classes.

Refracting Telescopes, like the Meade Model NGC-70, use a large objective lens as their primary light-collecting element. Meade® refractors include achromatic (2-element) objective lenses in order to reduce false color that results when light passes through a lens.

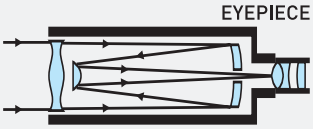


Refractor

Reflecting Telescopes use a concave primary mirror to collect light and form an image. In the Newtonian type of reflector telescope, the Meade Model DS-2130ATS, light is reflected by a small, flat secondary mirror to the side of the main tube for observation of the image. This is a large telescope for a comparatively low price.



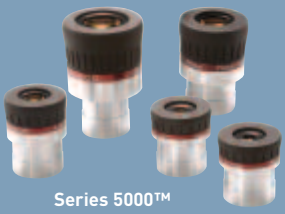
Reflector



Catadioptric

Catadioptric (Mirror-Lens) Telescopes like the ETX-90 employ both mirrors and lenses, resulting in optical configurations that achieve remarkable image quality and resolution in extremely short, highly portable optical tubes.

EYEPIECES



Series 5000™
5-Element Plössl

Series 4000™
Super Plössl

Series 4000™ QX
Wide Angle Eyepieces

Meade® Series 4000™ and Series 5000™ Eyepieces

The Finest in Premium Telescope Eyepieces

Series 4000 Super Plössl Eyepieces feature a great all-purpose eyepiece design: 4-element, fully multi-coated optics, wide 52˚ apparent field of view. Features long eye relief, with soft eyeguards.

Product Number	Focal Length	Barrel Size	Product Number	Focal Length	Barrel Size
07170-02	6.4mm	1.25"	07174-02	20mm	1.25"
07171-02	9.7mm	1.25"	07175-02	26mm	1.25"
07172-02	12.4mm	1.25"	07176-02	32mm	1.25"
07173-02	15mm	1.25"	07177-02	40mm	1.25"

Series 4000 QX Eyepieces offer extra-wide 70˚ field of view.

Product Number	Focal Length	Barrel Size
07258	15mm	1.25"
07259	20mm	1.25"

Series 5000 5-Element Plössl Eyepieces represent a milestone in design and engineering. The five- and six-element designs feature tack sharp optical performance and 60° apparent field-of-view. Take a look through the new Meade Series 5000 Plössls and rediscover your favorite celestial objects.

Product Number	Focal Length	Barrel Size
07650	5.5mm	1.25"
07651	9mm	1.25"
07652	14mm	1.25"
07653	20mm	1.25"
07654	26mm	1.25"

Series 5000 Super Wide Angle Eyepieces boast a 68° apparent field-of-view and image resolution that is razor sharp from edge-to-edge, rich in detail and contrast with virtually no chromatic aberration.

Series 5000 Ultra Wide Angle Eyepieces, representing the ultimate in technology, deliver extremely high resolution, contrast and full-field sharpness over an astounding 82° apparent field-of-view to achieve the highest level of optical performance.

CAPTUREVIEW®

Meade® CaptureView® 8x22 VGA, 8x30 1.3MP

Binoculars that take pictures

WHAT A GREAT IDEA!

Say goodbye to the phrase "You should have been there." Whether it's a mountain goat leaping a gorge, a record-breaking home run, or a rafting trip through the rapids of the Colorado River, now you can view the action up close and capture it as digital images or video clips. Use the exclusive Flashback™ feature to save the last 5, 10, 15 or 20 seconds of any recording, then view an instant replay of what you recorded. Pick up a CaptureView for the boater, bird watcher, sports fan or outdoor enthusiast in your life. (See CaptureView Brochure for more information.)

SPECIFICATIONS:	CV-1	CV-2
Power	8x	8x
Objective Lens Diameter	22mm	30mm
Field of View	382 ft. at 1000 yards	367 ft. at 1000 yards
Prism Type	Folding roof	Folding roof
Close Focus (Binocular)	16 ft.	16 ft.
Waterproof	No	No
Flashback	No	Yes
Weight	12.8 oz.	17.2 oz.
Memory (Camera)	16MB SDRAM	16MB SDRAM
Image Capacity (Camera)	400@VGA	12@1.3MP
Video	200 sec. @QVGA	30 sec. @QVGA

DIGITAL CAMERA BINOCULARS

CV-4
CaptureView 8X30 2.0MP
Flashback™ / WATERPROOF

CV-5
CaptureView® 8X42 2.0MP
Flashback™

Meade® CaptureView® 8x30 2.0MP Waterproof, 8x42 2.0MP

Capture the image you see in the binocular–perfectly!

CAPTUREVIEW® CV-1 8X22 VGA / CV-2 8x30 1.3MP
Great for e-mailing up-close highlights of the big game, vacation or concert to family and friends. 16MB built-in memory. Compact, portable, easy to use.

CAPTUREVIEW® CV-4 8x30 2.0MP / CV-5 8X42 2.0MP
A fantastic, bright, high-resolution 8-power binocular combined with a state-of-the-art digital camera. Full color flip-up LCD preview screen. 2.0 MP resolution. SD slot for additional memory.

Flashback™ Video Instant Replay feature captures the last 10 seconds of live action. So you never miss the action. (See CaptureView Brochure for more information.)

SPECIFICATIONS:	CV-4	CV-5
Power	8x	8x
Objective Lens Diameter	30mm	42mm
Field of View	367 ft. at 1000 yards	376 ft. at 1000 yards
Prism Type	Folding roof	Folding roof
Close Focus (Binocular)	16 ft.	16 ft.
Waterproof	Yes	No
Flashback	Yes	Yes
Weight	19.4 oz.	24.9 oz.
Memory (Camera)	16MB SDRAM 16MB Flash	16MB SDRAM 16MB Flash
Image Capacity (Camera)	40@2MP	40@2MP
Video	90 sec. @QVGA	90 sec. @QVGA

Meade® 9X63

Astronomy Binoculars

Whether the object you're observing is light years away or an eagle perched in a tall tree, Meade's 9x63 roof prism Astro binocular provides sharp, bright, high resolution images. Giant 63mm achromatic objective lenses provide powerful light-gathering ability. Long eye relief provides hours of comfortable viewing without eye strain.

The binocular is rubber armored for a comfortable and sure grip. Features precision, fluid-motion central focusing. Supplied complete with a soft carry case and neck strap.

Meade offers a complete line of general purpose binoculars for travel, spectator sports, concerts, and more to meet every need and pocketbook. For the complete line of Meade binoculars see the Meade Binocular Catalog or visit: ***www.meade.com/binoculars***.

SPECIFICATIONS:

Power	9x
Objective Lens Diameter	63mm
Field of View	305 ft. at 1000 yards
Prism Type	Full size roof prism
Close Focus	16.4 ft.
Eye Relief	21.5mm
Exit Pupil	7mm
Weight	44.1 oz.
Dimensions	6.25" x 10.5" x 2.8"

NIGHTVIEW™

Meade® NightView™
Revolutionary Digital Night Vision

NIGHTVISION THAT'S FUN AND EASY TO USE!

The Meade NightView™ monocular is a new digital compact night scope that will change the way you view the world after dark. NightView is built on state-of-the-art digital imaging technology which yields a crisp, detail-rich, full field-of-view image in all low-light conditions. It's what you expect night vision to be! It's fun and easy-to-use. It includes a video-out port that can be quickly connected to a video monitor or camcorder for surveillance purposes. It's perfect for boaters, nature hobbyists, campers, hikers, astronomers, and night vision enthusiasts. Buy it today, and open your eyes to a whole new world after dark.

Includes:

SPECIFICATIONS
NightView — Objective lens 1.5x, 12mm f/1.2 • 2x digital zoom • Field-of-view 38º • Image resolution 525x420 pixels • Viewer resolution 400 x 225 pixels • Eyepiece contrast filters: red, green and neutral density • AC adapter • Video-out port • Tripod adaptable.

MEADE.COM

MEADE INSTRUMENTS CORPORATION

6001 Oak Canyon • Irvine, California 92618 USA
(949) 451-1450 • www.meade.com

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